WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 05-Jul-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T129_03			
	igator(s): JGK		Landform (hi	llside, terrac	ce, hummocks etc.): Hillside			
	relief (concave, convex, none): hummocky		Slope:		0 ° Elevation: 715			
	gion : Southcentral Alaska	l at ·	 62.84160947		Long.: -149.026928068 Datum: NAD83			
	ap Unit Name:	Lat	02.04100347	00				
	·		0 V	● No ○	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for the /egetation , Soil , or Hydrology , egetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map site	significan naturally howing sa	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	in year open, and it against the control	0	lo	the Sam	uplad Aras			
	yu comcoo	•	Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes ● No arks: Stream just north of plot	\circ	W	itmin a vv				
	ETATION - Use scientific names of plants	•		-	Dominance Test worksheet:			
Tre	ee Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species			
	Alnus incana	20		FAC	That are OBL, FACW, or FAC: 2 (A)			
2.					Total Number of Dominant Species Across All Strata: 3 (B)			
3.		0			Percent of dominant Species			
4.		_			That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Co	ver:	_		Total % Cover of: Multiply by:			
Sa	oling/Shrub Stratum 50% of Total Cover:	1020	% of Total Cove	:4	OBL Species $0 \times 1 = 0$			
1	Alnus incana	55	✓	FAC	FACW Species 0 x 2 = 0			
2.			_ =	TAC	FAC Species 92 x 3 = 276			
3.			- П		FACU Species 95.2 x 4 = 380.8			
4.		_	-		UPL Species 0 x 5 = 0			
5.					Column Totals: <u>187.2</u> (A) <u>656.8</u> (B)			
6.		_			Column Totals. <u>107.2</u> (A) <u>000.0</u> (B)			
7.		0			Prevalence Index = B/A = 3.509			
8.					Hydrophytic Vegetation Indicators:			
9.		_			✓ Dominance Test is > 50%			
10.		0			☐ Prevalence Index is ≤3.0			
Не	Total Co rb Stratum 50% of Total Cover:		 D% of Total Cove	r: <u>11</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Dryopteris expansa	70	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Gymnocarpium dryopteris	20		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis	15	_	FAC	be present, unless disturbed or problematic.			
4.	Streptopus amplexifolius	5		FACU	Plot size (radius, or length x width) 10m			
5.	Equisetum sylvaticum	2		FAC	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 0			
6.	Spinulum annotinum		-	FACU	(Where applicable)			
7.	Trientalis europaea			FACU	% Bare Ground <u>40</u>			
8.			-		Total Cover of Bryophytes			
			-					
					Hydrophytic			
10.		112			Vegetation			
10.	Total Co 50% of Total Cover:		_	: 22.44	Present? Yes • No O			

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SOIL Sampling Point: SW13_T129_03

<u> </u>								r -	10mt. 5W15_1125_65	
		he depth need latrix	ded to docume	ent the indicator or co	nfirm the abse		ators)			
Depth (inches)	Color (mois		%	Color (moist)		Type ¹	_Loc_2	Texture	Remarks	
0-3				,				Fibric Organics		
3-7								Sapric Organics		
7-8								charcoal/ash		
8-12								Coarse Loamy Sand	grading into coarser sand particles	
12-13	7.5YR	3/2						Silt Loam		
¹Type: C=Cor	ncentration. D=I	Depletion. F	RM=Reduced	d Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblematic	Hydric So	oils: ³			
Histosol or	r Histel (A1)		[Alaska Color Change (TA4)				Alaska Gleyed Without Hu	ue 5Y or Redder	
Histic Epip	pedon (A2)		Į	Alaska Alpine s	, ,			Underlying Layer		
l — ' · ·	Sulfide (A4)		l	☐ Alaska Redox V	Vith 2.5Y Hu	ıe	\sqcup	Other (Explain in Remark	s)	
	k Surface (A12)			³ One indicator of	hvdrophytic	veaetatio	n. one prim	nary indicator of wetland h	vdrology.	
Alaska Gle				and an appropriat					yurolog,,	
Alaska Red	dox (A14) eyed Pores (A15)	١		4 Give details of co	olor change	in Remark	S			
	· ` ` '	<u> </u>								
Restrictive Laye								Undrie Cail Brocant	? Yes ○ No ●	
Type: _{Ice} Depth (inch								Hydric Soil Present	? res ∪ nu ⊕	
, ,	103/1. 10									
Remarks:										
HYDROLO										
	rology Indicat	ors:						Secondary Indic	cators (two or more are required)	
-	ators (any one is								ned Leaves (B9)	
Surface W	Vater (A1)			☐ Inundation V	isible on Aer	rial Imager	y (B7)		atterns (B10)	
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized RI	nizospheres along Living Roots (C3)	
✓ Saturation (A3)				Marl Deposits	, ,				f Reduced Iron (C4)	
☐ Water Ma				Hydrogen Su				Salt Deposi		
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)	
☐ Drift Depo				Other (Explai	in in Remark	(S)			c Position (D2)	
☐ Algal Mat☐ Iron Depo	or Crust (B4)							✓ Shallow Aq	` '	
	Soil Cracks (B6)							☐ Microtopog	raphic Relief (D4) LTest (D5)	
Field Observa							T		i lest (D3)	
		$_{Yes} \bigcirc$	No 💿	Depth (inche	es):					
Surface Water	i Fiescii:		_		•		Wetlan	nd Hydrology Presen	t? Yes • No O	
Surface Water Water Table P		Yes 🔾	No 💿	Denth (inche	oc).					
Water Table F	Present? esent?			Depth (inche	,		Victiai	ia nyarology i resen		
Water Table P	Present? esent?	Yes ○ Yes ●		Depth (inche	,		Wettur	ia riyarology i resen		
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Water Table F Saturation Pre (includes capi Describe Recor Remarks:	Present? esent? illary fringe) rded Data (strea	Yes •	No O	Depth (inche	vious inspect	tion) if ava		ia nyarology i resem		
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